

## ABSTRACT OF THE DISCLOSURE

A fluid treatment system, and methods of use, the system includes a sealed fluid flow path including a treatment chamber portion and containing a fluid to be passed therethrough and treated with light. The treatment zone is transmissive to at least 1% of the light having at least one wavelength within a range of 170 to 2600 nm. In some variations, the sealed fluid flow path is removable from a light treatment system. In some variations, the flow path includes a first fluid container portion for containing the fluid to be treated and coupled to the treatment chamber portion and a second fluid container portion coupled to an output of the treatment chamber portion. The fluid flow path is designed to be disposable and easily replaceable.